receptors 12 for simplicity of description. On the other hand, the labeled composite particle 16 shown in FIG. 1 (b) shows target receptors 17 which have DNA fragments (broken lines) with a different base sequence from the DNA fragment in the aforementioned target receptors 12. Here, the same symbols as in FIG. 1 (a) denote the same things. In the present embodiment, since a magnetic particle 11 is used for a micro particle, not only are the target receptors 12 held altogether, but also the labeled composite particles 10, 16 can be remotely controlled by a magnetic field. In particular, by using a pipette device that is provided with a magnetic device, various operations can be automated.

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As shown in FIG. 8 (a), for example, two types of labeled composite particles 46, 47 are prepared. The target receptors of the labeled composite particle 46 and the labeled composite particle 47 are different, and are formed by DNA fragments with different base sequences. Two types of fluorescent substances 13(○), 15 (△) are bonded with the target receptors in a molar ratio of 4 to 1 for the labeled composite particle 46, and in a molar ratio of 1 to 4 for the labeled composite particle 47. In FIG. 8 (b), a DNA binding protein 48, being a target labeled by a fluorescent substance 49 is mixed into the suspension within which the two types of labeled composite particles 46, 47 are mixed.

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It is assumed, in FIG. 8 (c), that the DNA binding protein 48 is bonded with the labeled composite particle 46. In FIG. 8 (d), by measuring the fluorescence spectrum of the fluorescent substance 49 that is labeled by the DNA binding protein 48, the labeled composite particle 46 by which the DNA binding protein 48 is captured is selected. Then, after the labeled protein 48 is removed in FIG. 8 (e), the labeled composite particle 46 is discriminated by fluorescence.

IN THE CLAIMS:

22. (Amended) A process for utilizing a labeled complex according to claim 20, wherein said selection step has; a step for suspending said labeled complex group, a step for contacting the suspension in which the labeled complex group is suspended, and selective substances for selecting the object labeled complexes, and a step for extracting or separating the labeled complexes bonded with the selective substances.